

WHAT IS CLAIMED IS:

1. An optical memory, comprising:
 - (a) an optical disk comprising a material in which a
 - 5 holographic grating can be created at plural locations within the disk, wherein the holographic grating represents a stored data element;
 - (b) an electro-optical head capable of creating the
 - holographic grating at any one of the plural locations within
 - 10 the disk via a beam of light.

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